

Annalisa Ac Cappello

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,429
citations

279701

23
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345118

36
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67
docs citations

67
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Dynamic Emissivityâ€™Temperature Trends on Spaceborne Data: Applications to the 2001 Mount Etna Eruption. <i>Remote Sensing</i> , 2022, 14, 1641.	1.8	5
2	Effusion Rates on Mt. Etna and Their Influence on Lava Flow Hazard Assessment. <i>Remote Sensing</i> , 2022, 14, 1366.	1.8	9
3	Modeling of Geophysical Flows through GPUFLOW. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4395.	1.3	6
4	Combining Radar and Optical Satellite Imagery with Machine Learning to Map Lava Flows at Mount Etna and Fogo Island. <i>Energies</i> , 2021, 14, 197.	1.6	17
5	A particle swarm optimizationâ€™based heuristic to optimize the configuration of artificial barriers for the mitigation of lava flow risk. <i>Environmental Modelling and Software</i> , 2021, 139, 105023.	1.9	4
6	Forest Fire Spreading Using Free and Open-Source GIS Technologies. <i>Geomatics</i> , 2021, 1, 50-64.	1.0	18
7	Volcanic Hazard Monitoring Using Multi-Source Satellite Imagery. , 2021, , .		2
8	Living at the edge of an active volcano: Risk from lava flows on Mt. Etna. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 1615-1625.	1.6	26
9	How the variety of satellite remote sensing data over volcanoes can assist hazard monitoring efforts: The 2011 eruption of Nabro volcano. <i>Remote Sensing of Environment</i> , 2020, 236, 111426.	4.6	38
10	The VEI 2 Christmas 2018 Etna Eruption: A Small But Intense Eruptive Event or the Starting Phase of a Larger One?. <i>Remote Sensing</i> , 2020, 12, 905.	1.8	36
11	Overflows and Pyroclastic Density Currents in March-April 2020 at Stromboli Volcano Detected by Remote Sensing and Seismic Monitoring Data. <i>Remote Sensing</i> , 2020, 12, 3010.	1.8	29
12	Recognizing Eruptions of Mount Etna through Machine Learning Using Multiperspective Infrared Images. <i>Remote Sensing</i> , 2020, 12, 970.	1.8	14
13	3D lava flow mapping in volcanic areas using multispectral and stereo optical satellite data. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	4
14	Satellite-Based Reconstruction of the Volcanic Deposits during the December 2015 Etna Eruption. <i>Data</i> , 2019, 4, 120.	1.2	13
15	Mapping Recent Lava Flows at Mount Etna Using Multispectral Sentinel-2 Images and Machine Learning Techniques. <i>Remote Sensing</i> , 2019, 11, 1916.	1.8	33
16	Role of Emissivity in Lava Flow â€™Distance-to-Runâ€™™ Estimates from Satellite-Based Volcano Monitoring. <i>Remote Sensing</i> , 2019, 11, 662.	1.8	17
17	Spaceborne EO and a Combination of Inverse and Forward Modelling for Monitoring Lava Flow Advance. <i>Remote Sensing</i> , 2019, 11, 3032.	1.8	9
18	Changing Eruptive Styles at the South-East Crater of Mount Etna: Implications for Assessing Lava Flow Hazards. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	17

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19	Improving cloud detection with imperfect satellite images using an artificial neural network approach. , 2019, , .		0
20	Smart Decision Support Systems for Volcanic Applications. <i>Energies</i> , 2019, 12, 1216.	1.6	10
21	Influence of topographic data uncertainties and model resolution on the numerical simulation of lava flows. <i>Environmental Modelling and Software</i> , 2019, 112, 1-15.	1.9	25
22	Semi-implicit 3D SPH on GPU for lava flows. <i>Journal of Computational Physics</i> , 2018, 375, 854-870.	1.9	14
23	Mapping Volcanic Deposits of the 2011â€“2015 Etna Eruptive Events Using Satellite Remote Sensing. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	48
24	Satellite-driven modeling approach for monitoring lava flow hazards during the 2017 Etna eruption. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	21
25	Preliminary validation of lava benchmark tests on the GPUSPH particle engine. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	5
26	3D Lava flow mapping of the 17â€“25 May 2016 Etna eruption using tri-stereo optical satellite data. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	18
27	Simulating Complex Fluids with Smoothed Particle Hydrodynamics. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	2
28	Lava flow hazard modeling during the 2014â€“2015 Fogo eruption, Cape Verde. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2290-2303.	1.4	69
29	HOTSAT: a multiplatform system for the thermal monitoring of volcanic activity using satellite data. <i>Geological Society Special Publication</i> , 2016, 426, 207-221.	0.8	33
30	GPUSPH: a Smoothed Particle Hydrodynamics model for the thermal and rheological evolution of lava flows. <i>Geological Society Special Publication</i> , 2016, 426, 387-408.	0.8	18
31	Testing a geographical information system for damage and evacuation assessment during an effusive volcanic crisis. <i>Geological Society Special Publication</i> , 2016, 426, 649-672.	0.8	7
32	Quantifying lava flow hazards in response to effusive eruption. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 752-763.	1.6	29
33	Emplacement conditions of the 1256 AD Al-Madinah lava flow field in Harrat Rahat, Kingdom of Saudi Arabia â€” Insights from surface morphology and lava flow simulations. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 309, 14-30.	0.8	30
34	MAGFLOW: a physics-based model for the dynamics of lava-flow emplacement. <i>Geological Society Special Publication</i> , 2016, 426, 357-373.	0.8	29
35	Impact of effusive eruptions from the Eguasâ€“CarvÃ£o fissure system, SÃ£o Miguel Island, Azores Archipelago (Portugal). <i>Journal of Volcanology and Geothermal Research</i> , 2015, 291, 1-13.	0.8	21
36	Lava flow hazardsâ€”An impending threat at Miyakejima volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 308, 1-9.	0.8	21

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37	Exploring lava flow hazards at Pico Island, Azores Archipelago (Portugal). <i>Terra Nova</i> , 2015, 27, 156-161.	0.9	25
38	Numerical simulation of basaltic lava flows in the Auckland Volcanic Field, New Zealand – implication for volcanic hazard assessment. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	43
39	Spatial probability distribution of future volcanic eruptions at El Hierro Island (Canary Islands,). <i>Tj ETQq1 1 0.784314 rrgBT /Overlock 10</i>	0.8	60
40	Lava flow hazards at Mount Etna: constraints imposed by eruptive history and numerical simulations. <i>Scientific Reports</i> , 2013, 3, 3493.	1.6	61
41	Probabilistic modeling of future volcanic eruptions at Mount Etna. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1925-1935.	1.4	48
42	QVAST: a new Quantum GIS plugin for estimating volcanic susceptibility. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 3031-3042.	1.5	60
43	Spatial vent opening probability map of Etna volcano (Sicily, Italy). <i>Bulletin of Volcanology</i> , 2012, 74, 2083-2094.	1.1	84
44	An emergent strategy for volcano hazard assessment: From thermal satellite monitoring to lava flow modeling. <i>Remote Sensing of Environment</i> , 2012, 119, 197-207.	4.6	92
45	A year of lava fountaining at Etna: Volumes from SEVIRI. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	85
46	Sensitivity analysis of the MAGFLOW Cellular Automaton model for lava flow simulation. <i>Environmental Modelling and Software</i> , 2012, 35, 122-131.	1.9	44
47	Near-real-time forecasting of lava flow hazards during the 12-13 January 2011 Etna eruption. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	77
48	Retrospective validation of a lava-flow hazard map for Mount Etna volcano. <i>Annals of Geophysics</i> , 2011, 54, .	0.5	12
49	LAV@HAZARD: a web-GIS interface for volcanic hazard assessment. <i>Annals of Geophysics</i> , 2011, 54, .	0.5	16